

FIG. 1

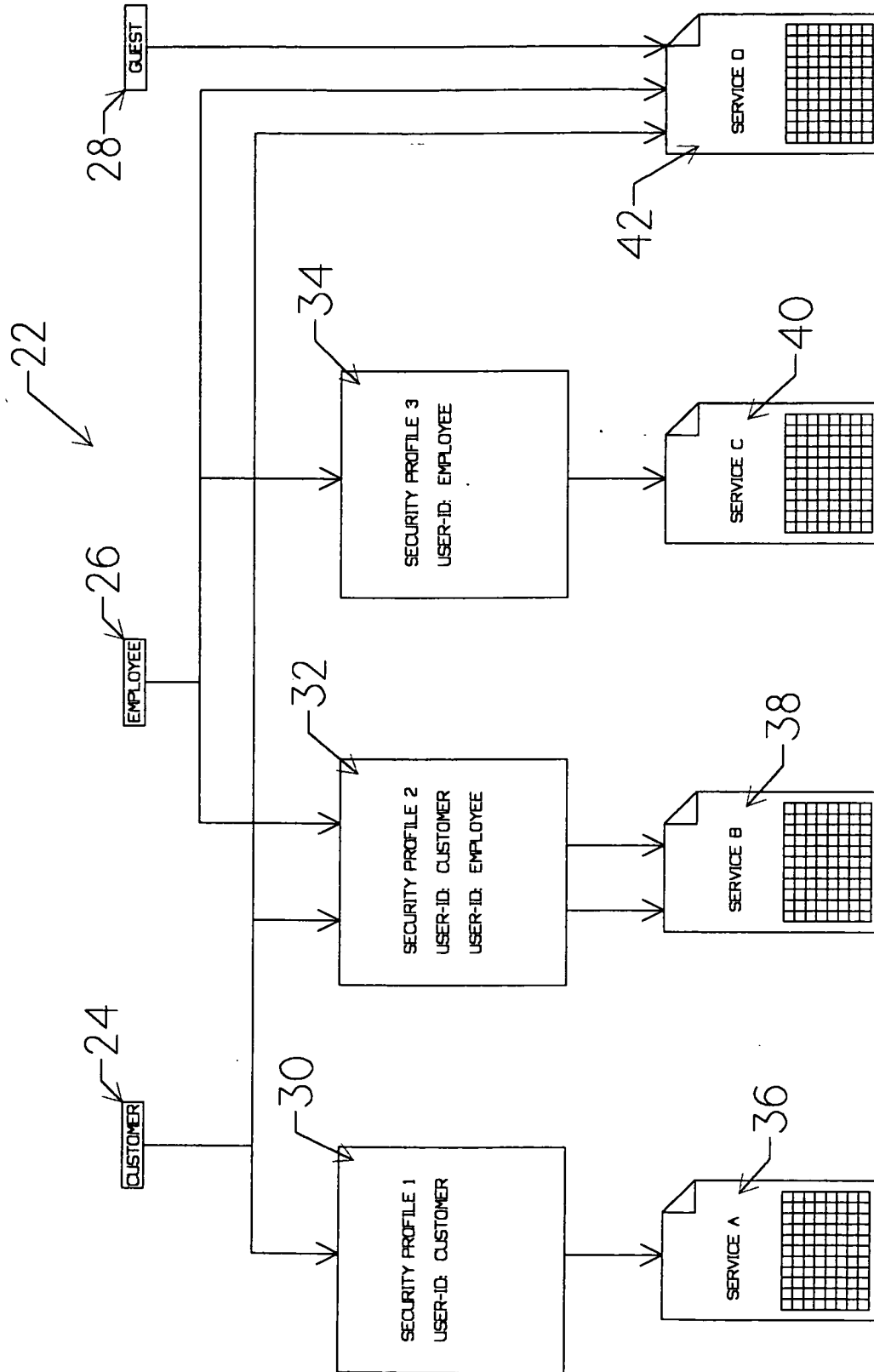


FIG. 2

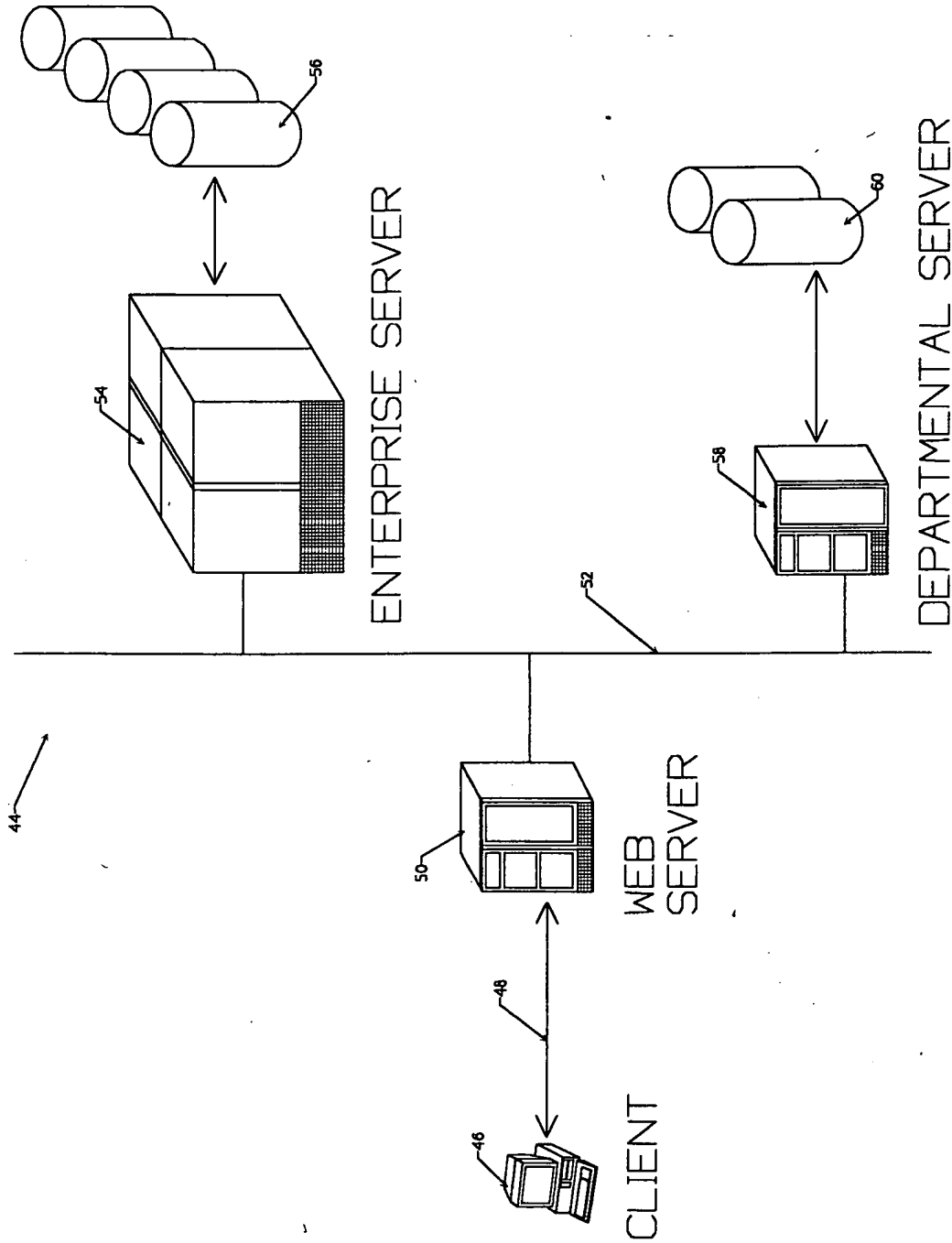


FIG. 3

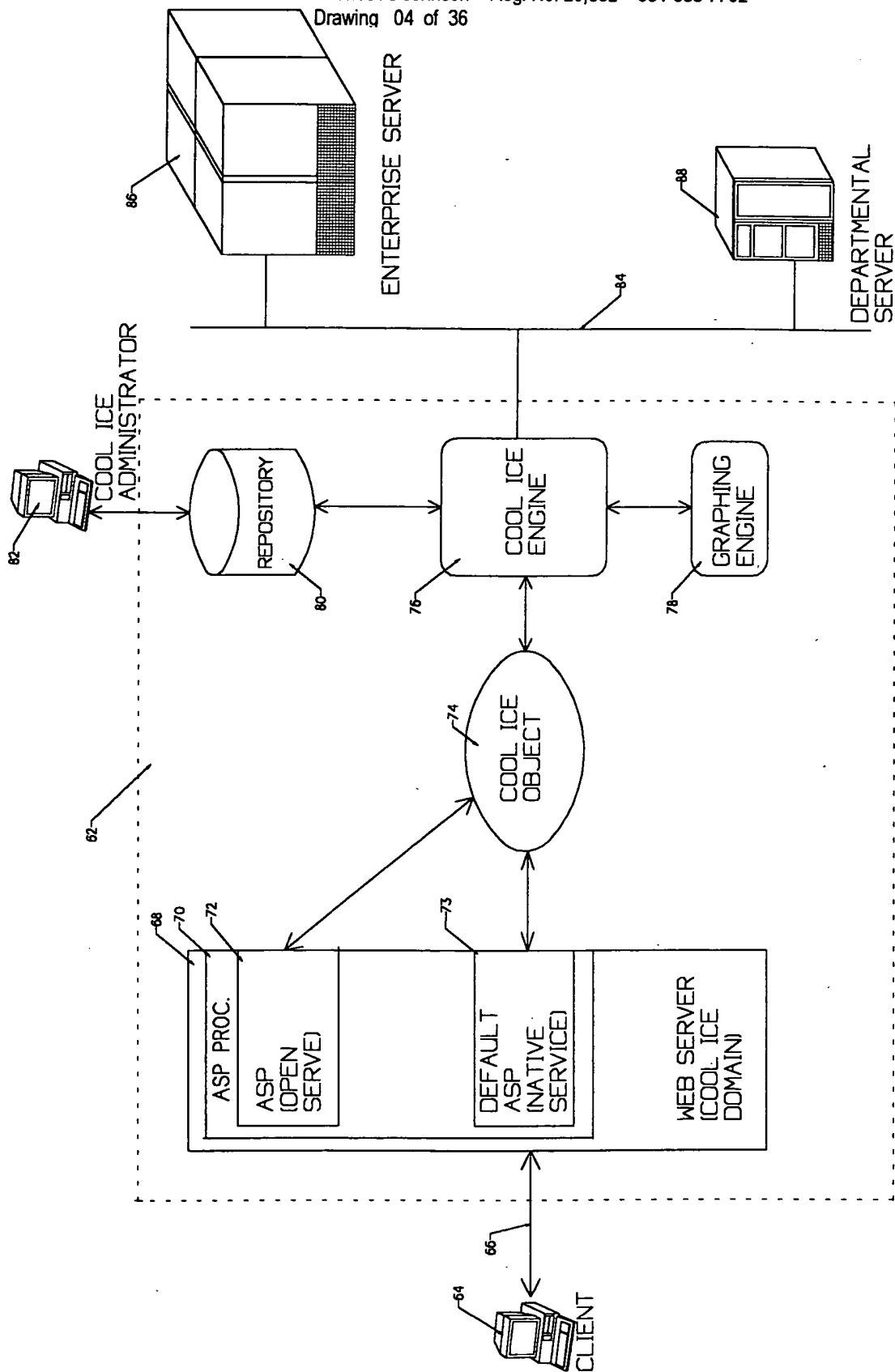


FIG. 4

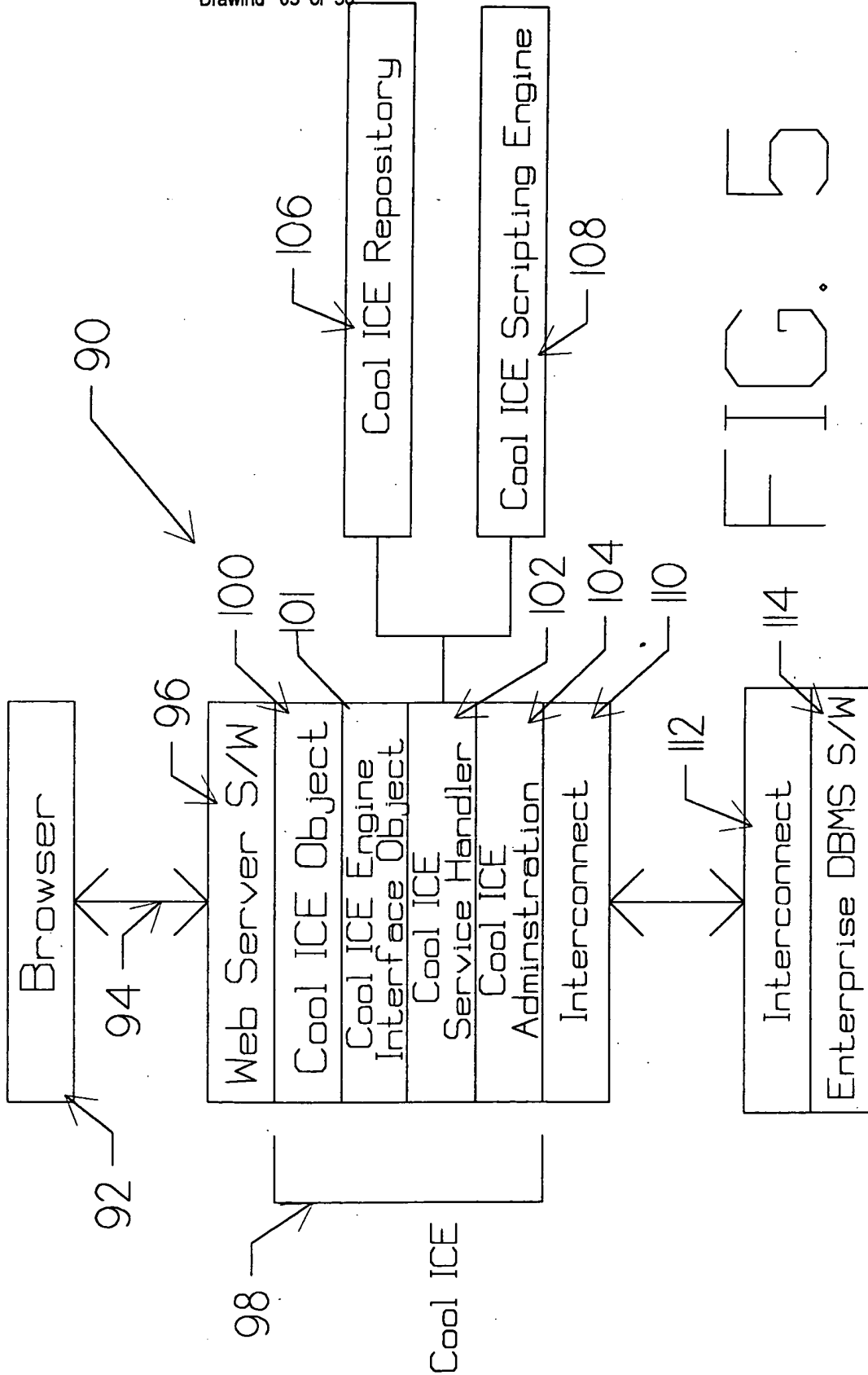


FIG. 5

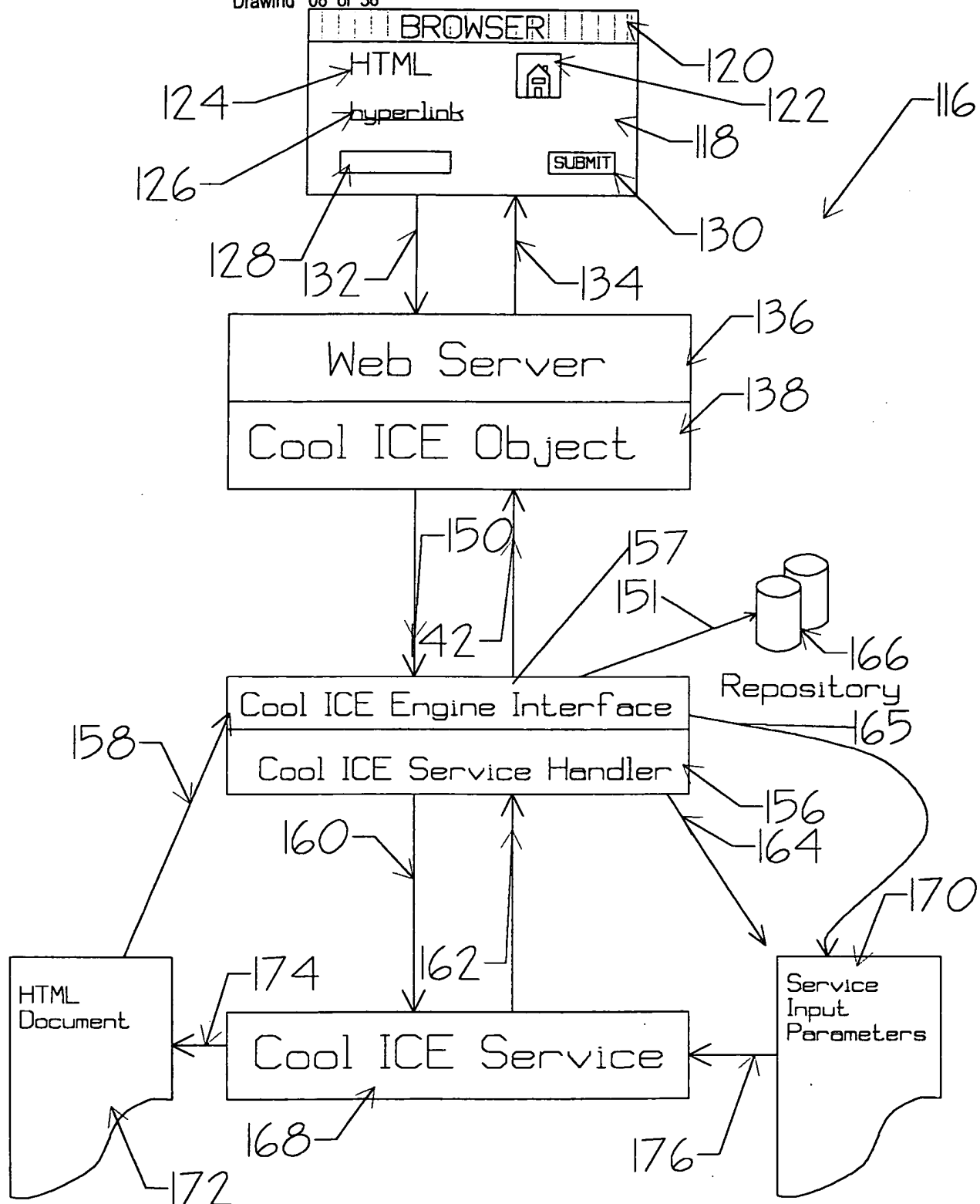


FIG. 6

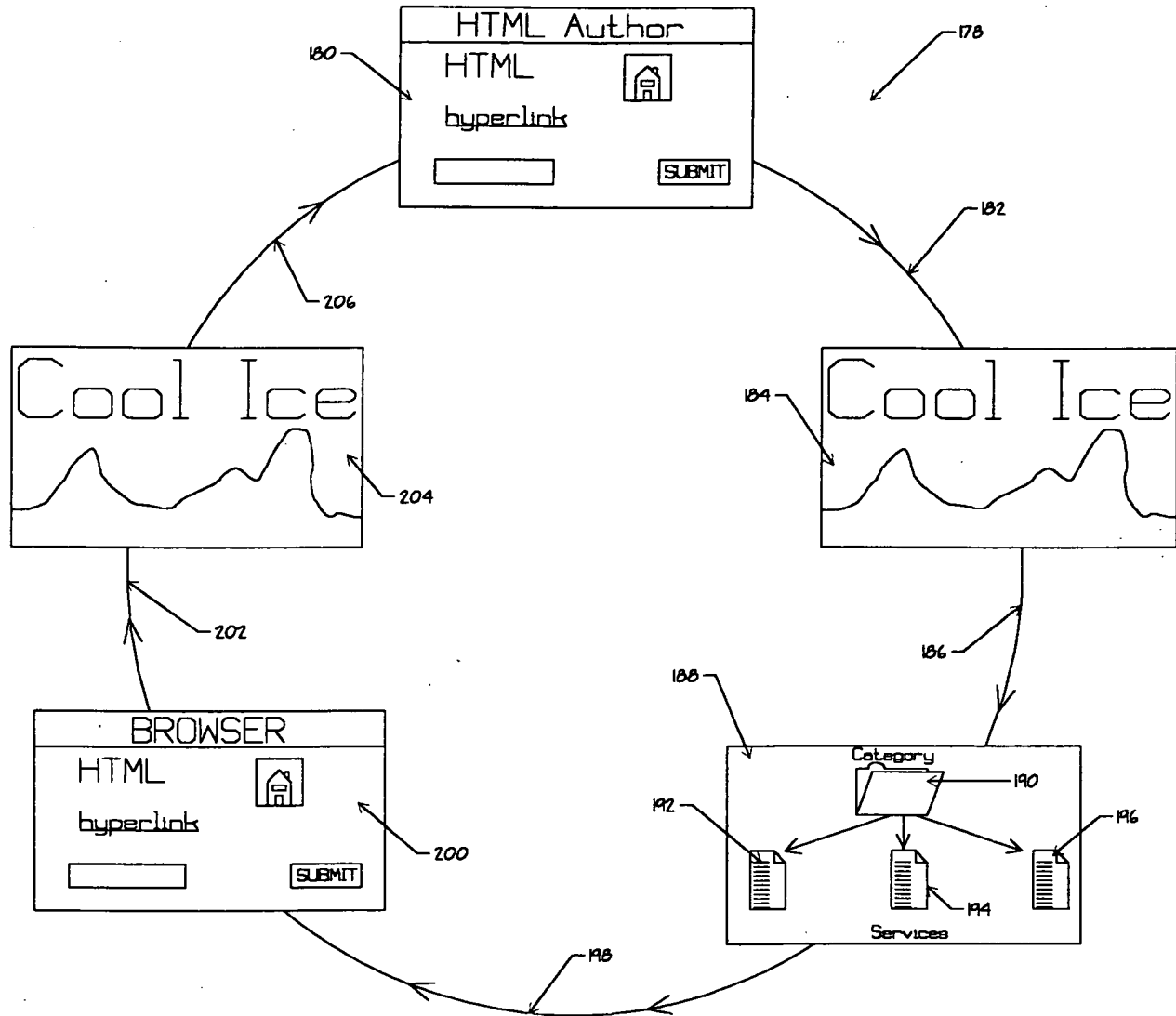


FIG. 7

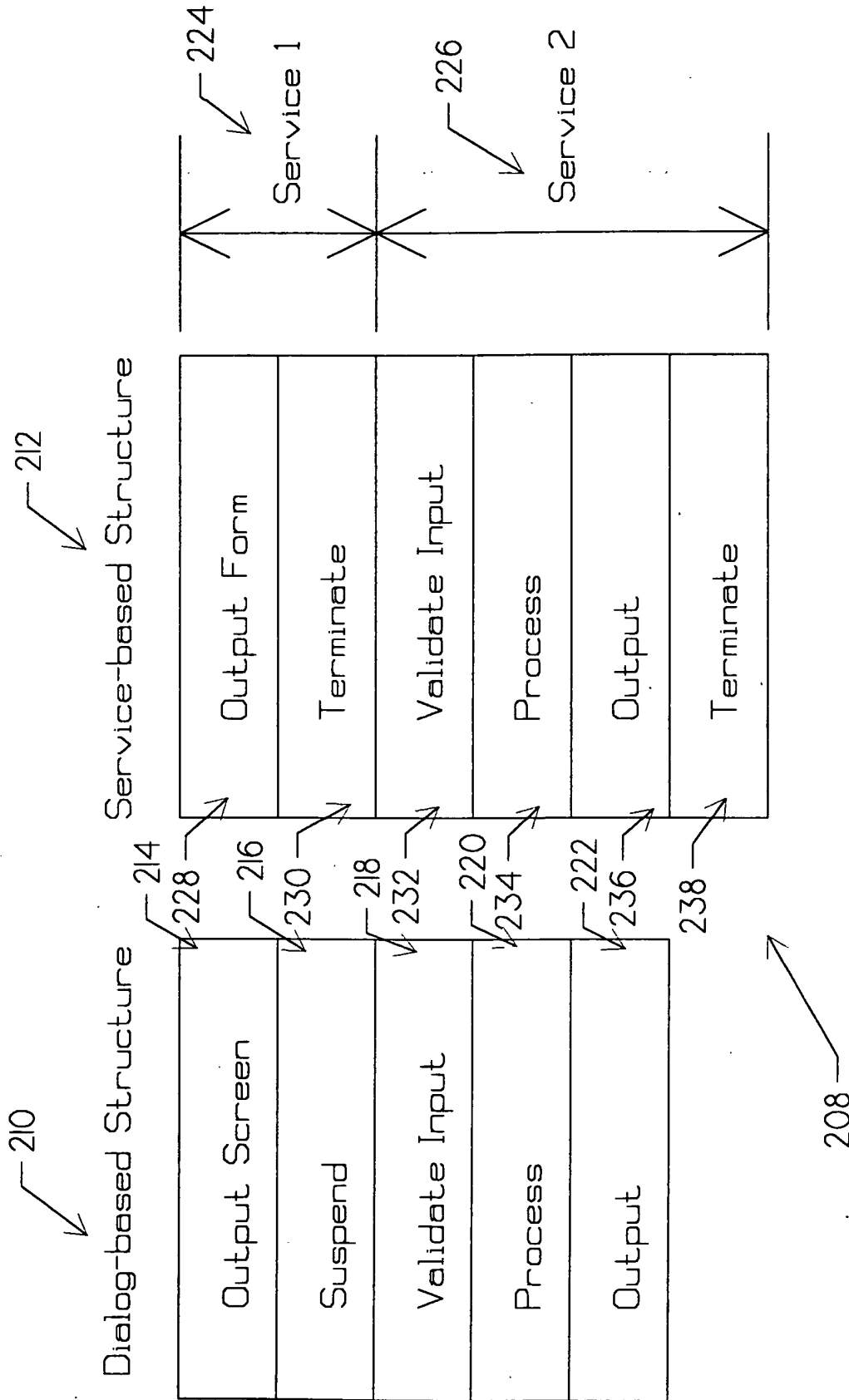


FIG. 8

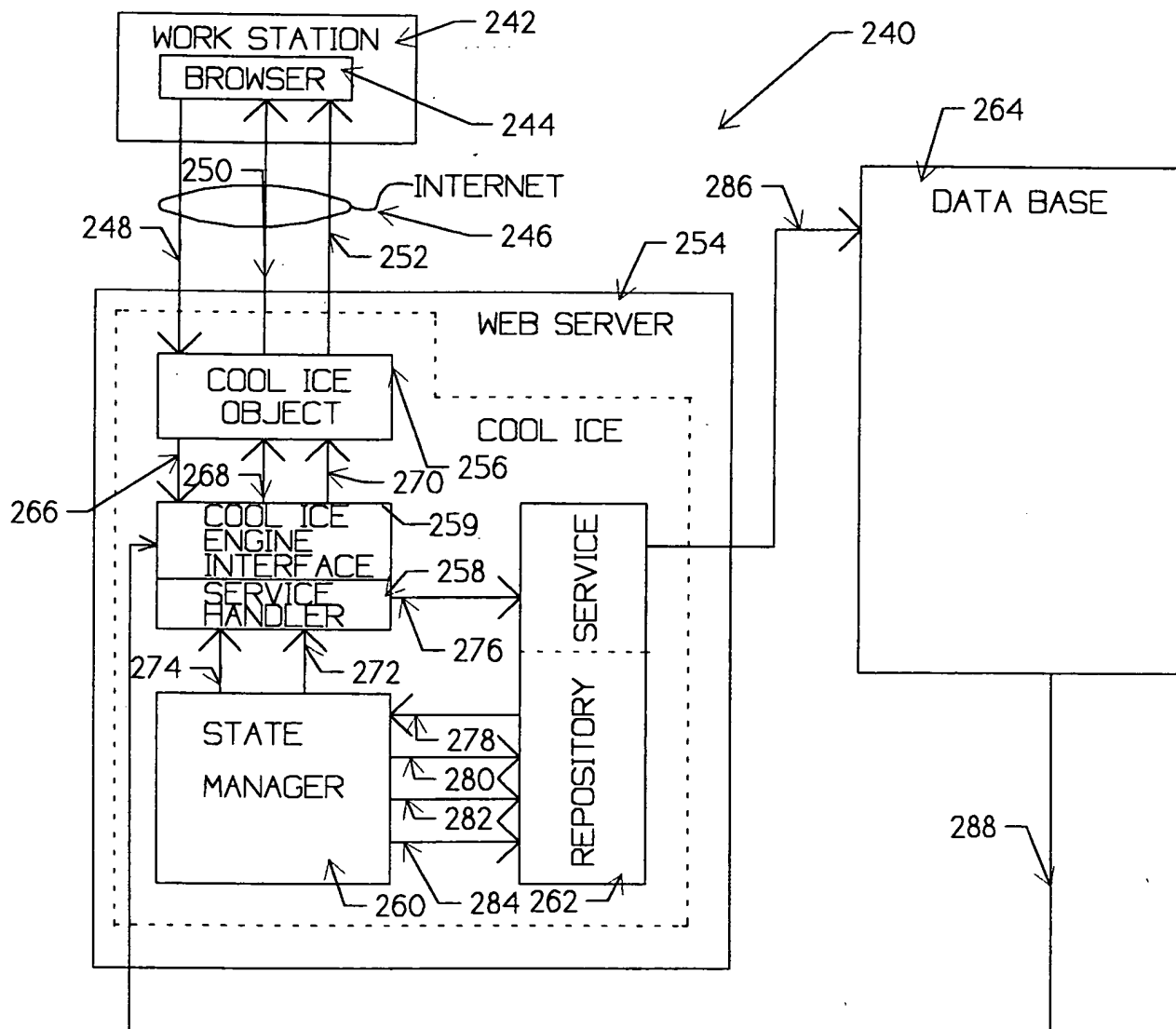


FIG. 9

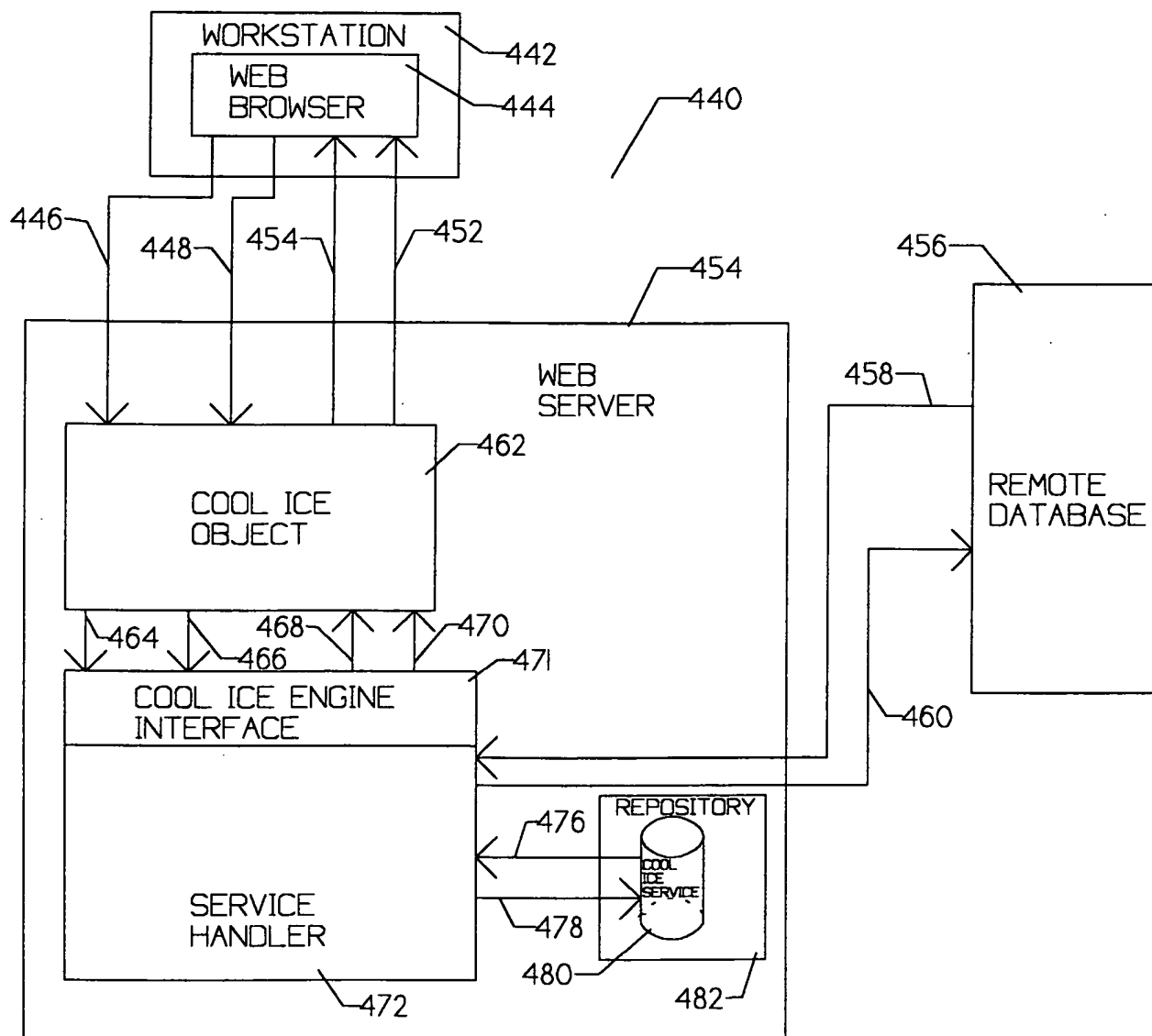


FIG. 10

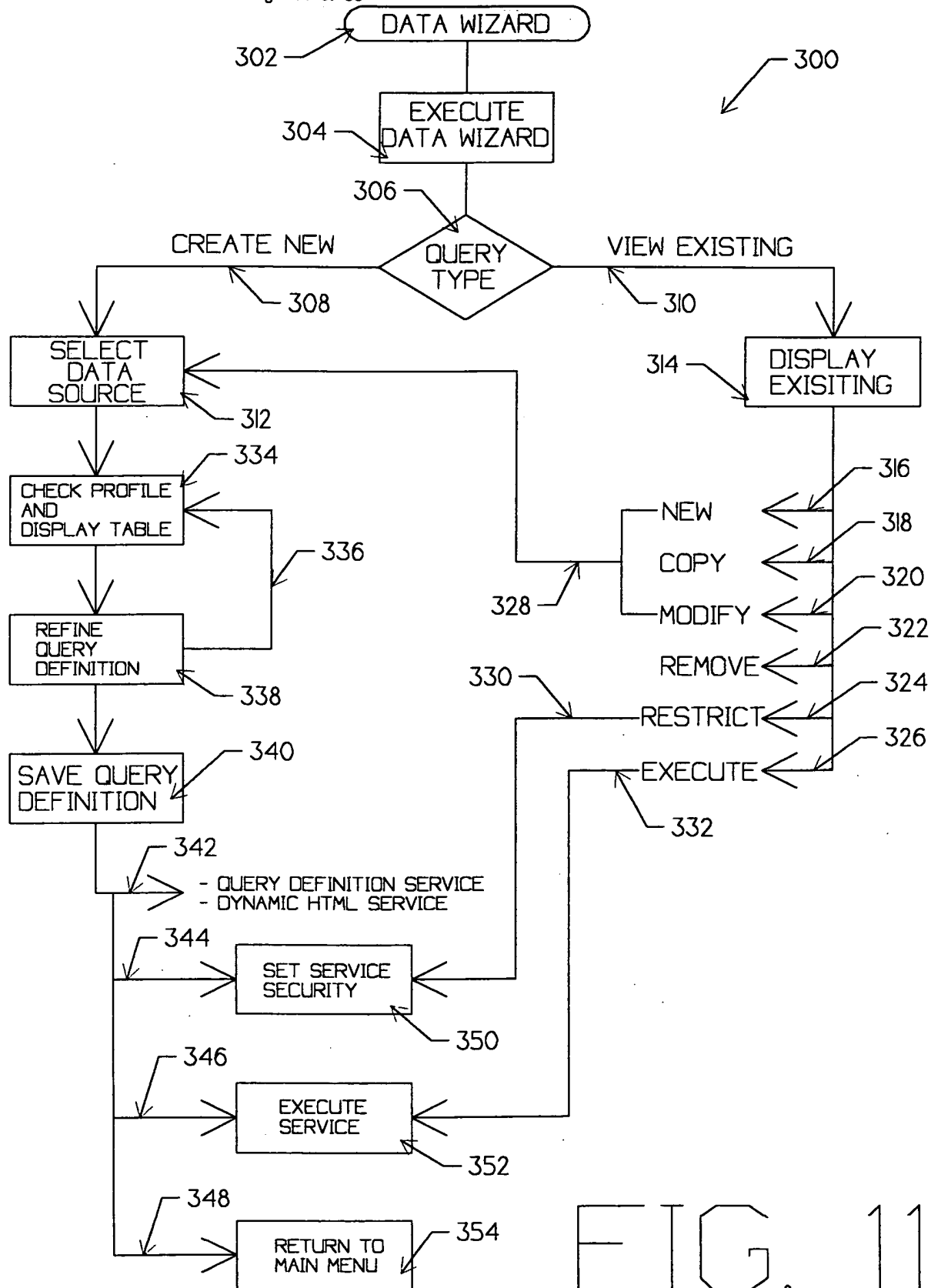


FIG. 11

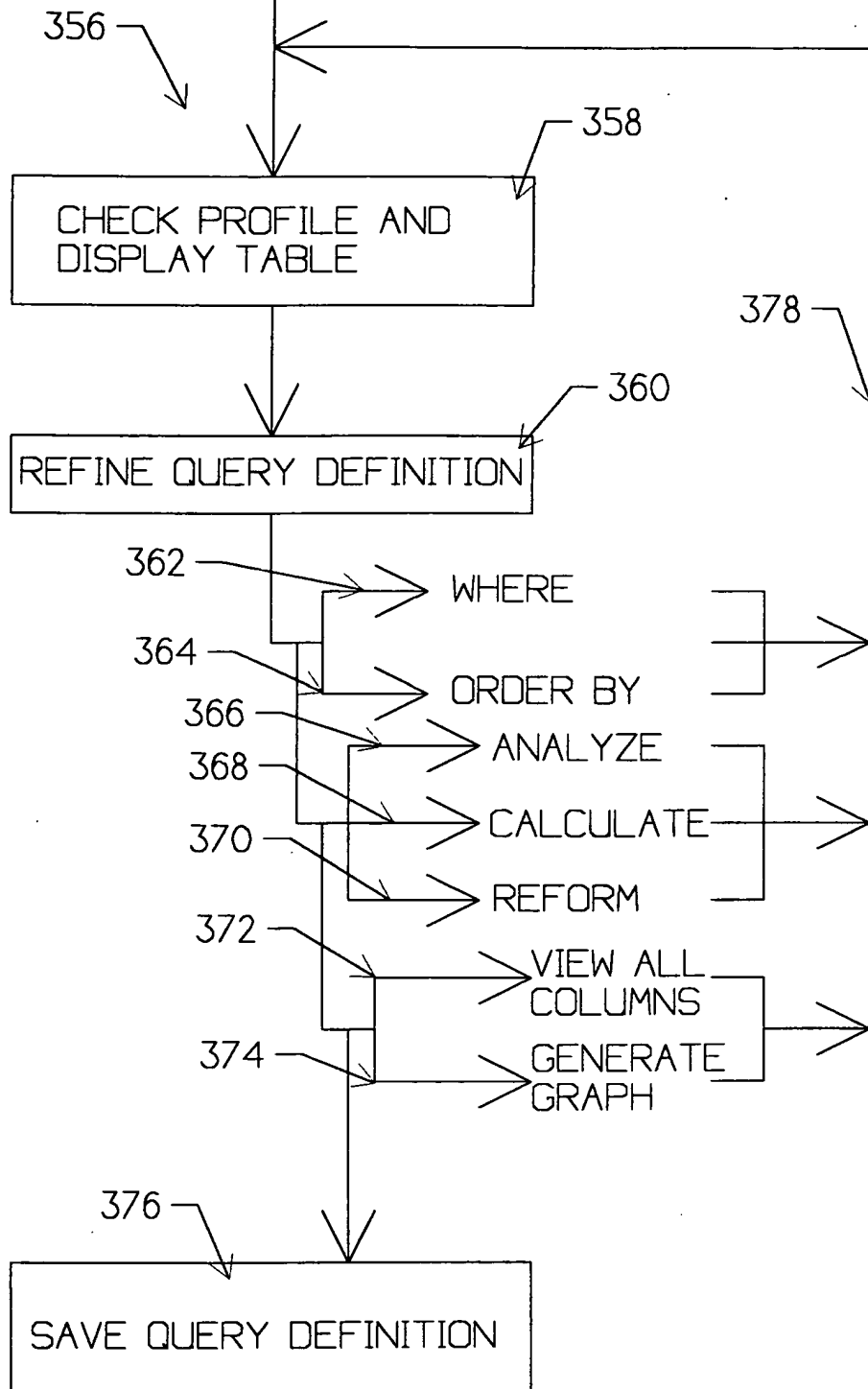


FIG. 12

FIG. 13

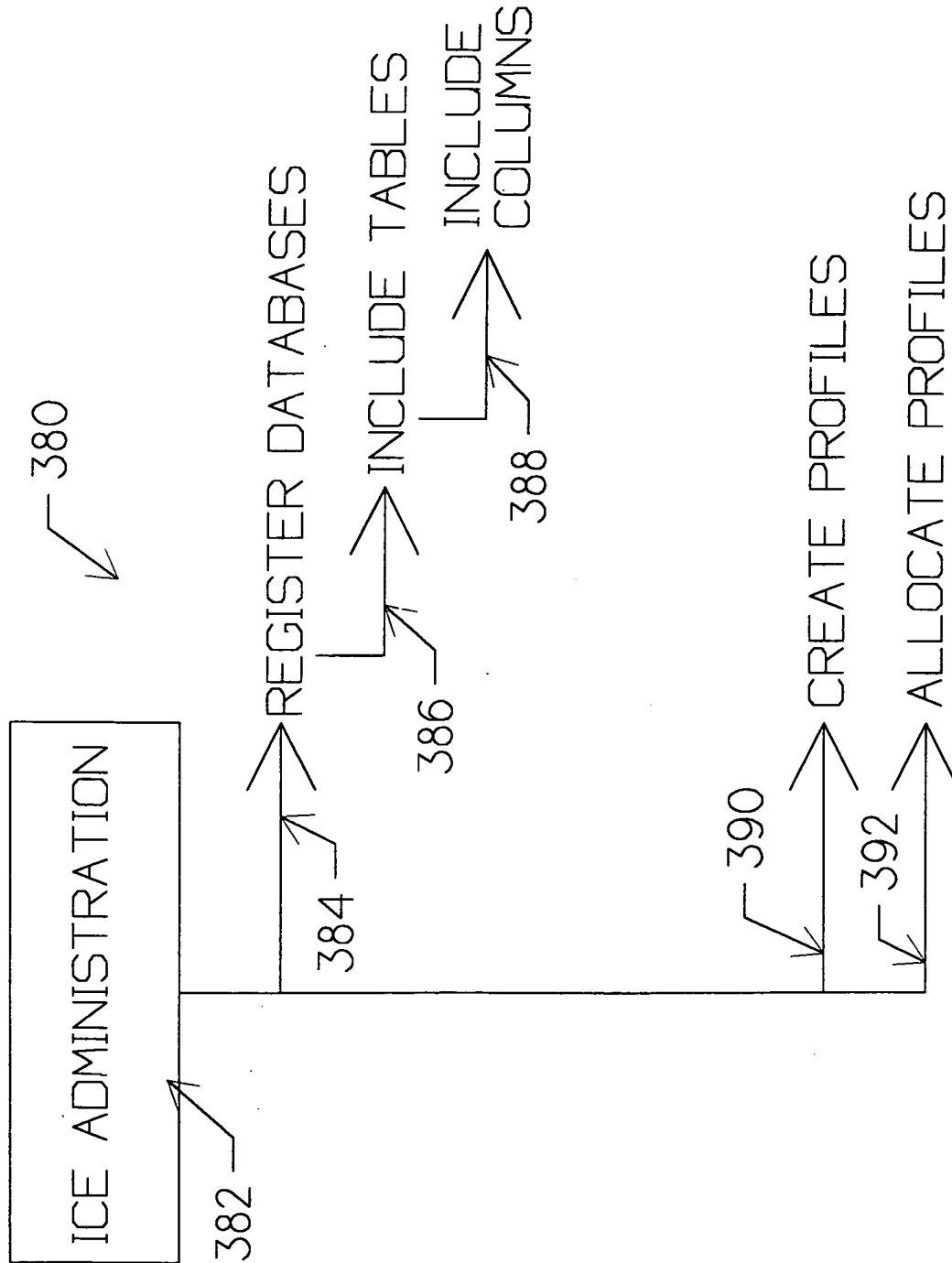


FIG. 13

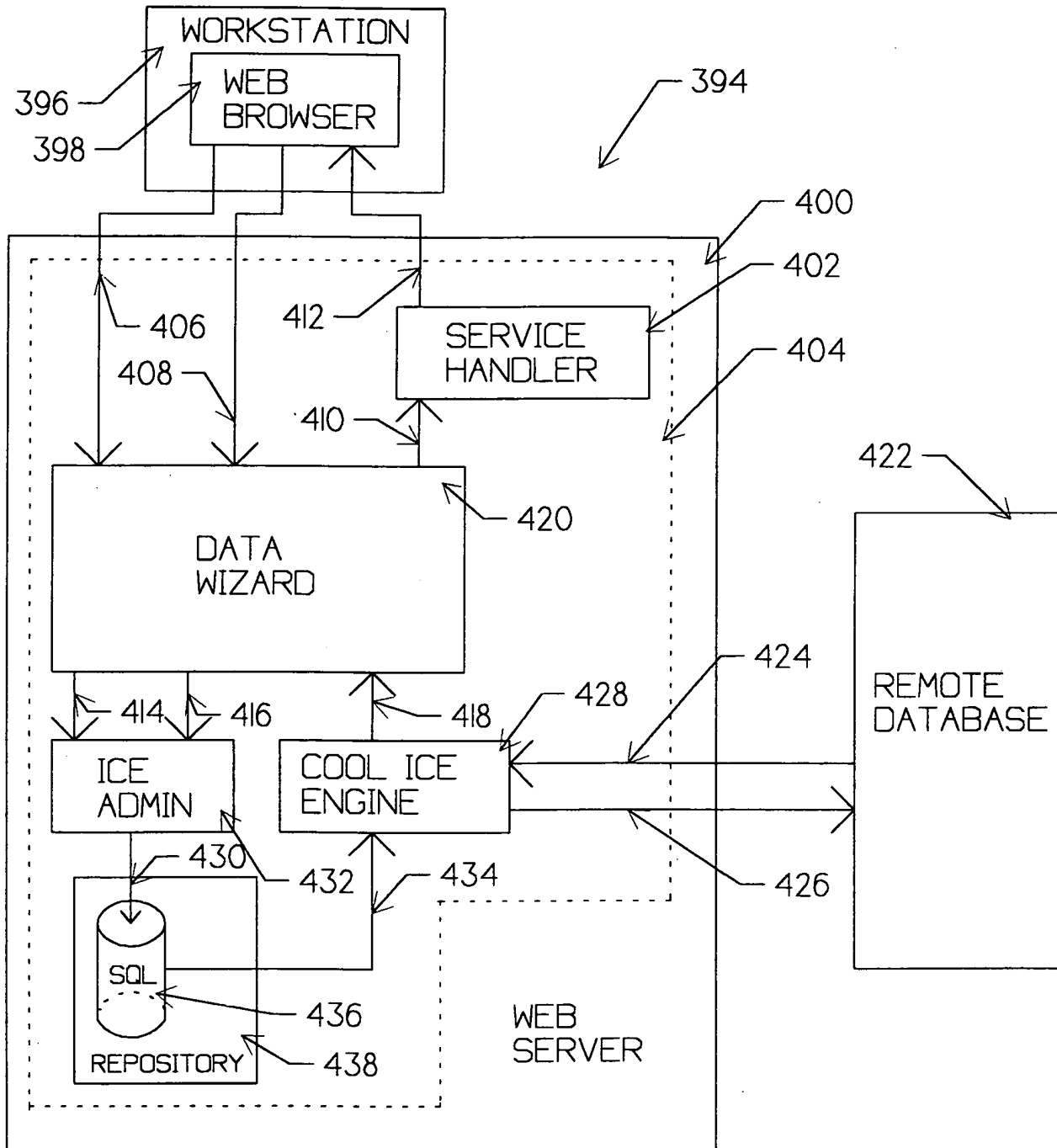


FIG. 14

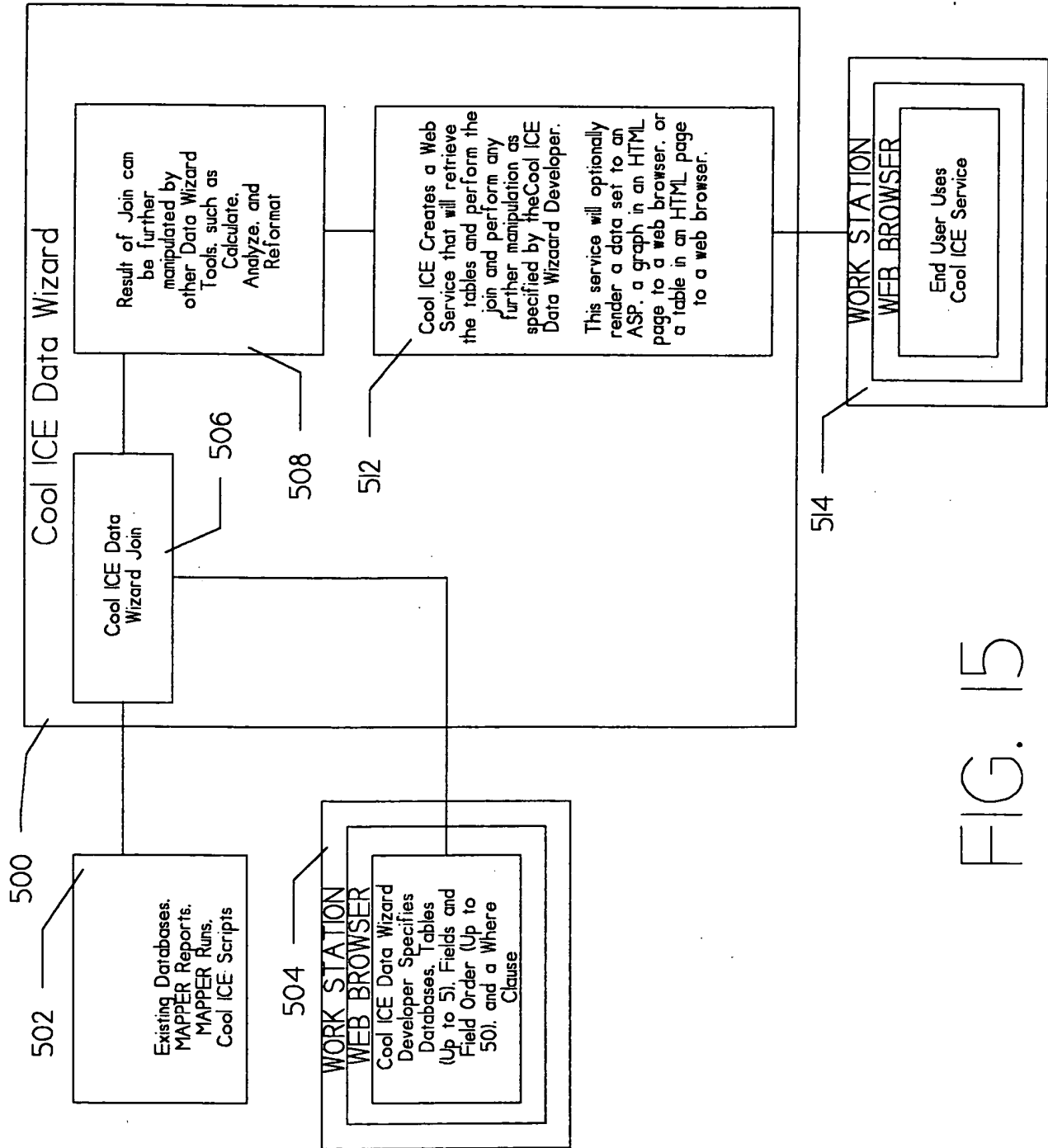
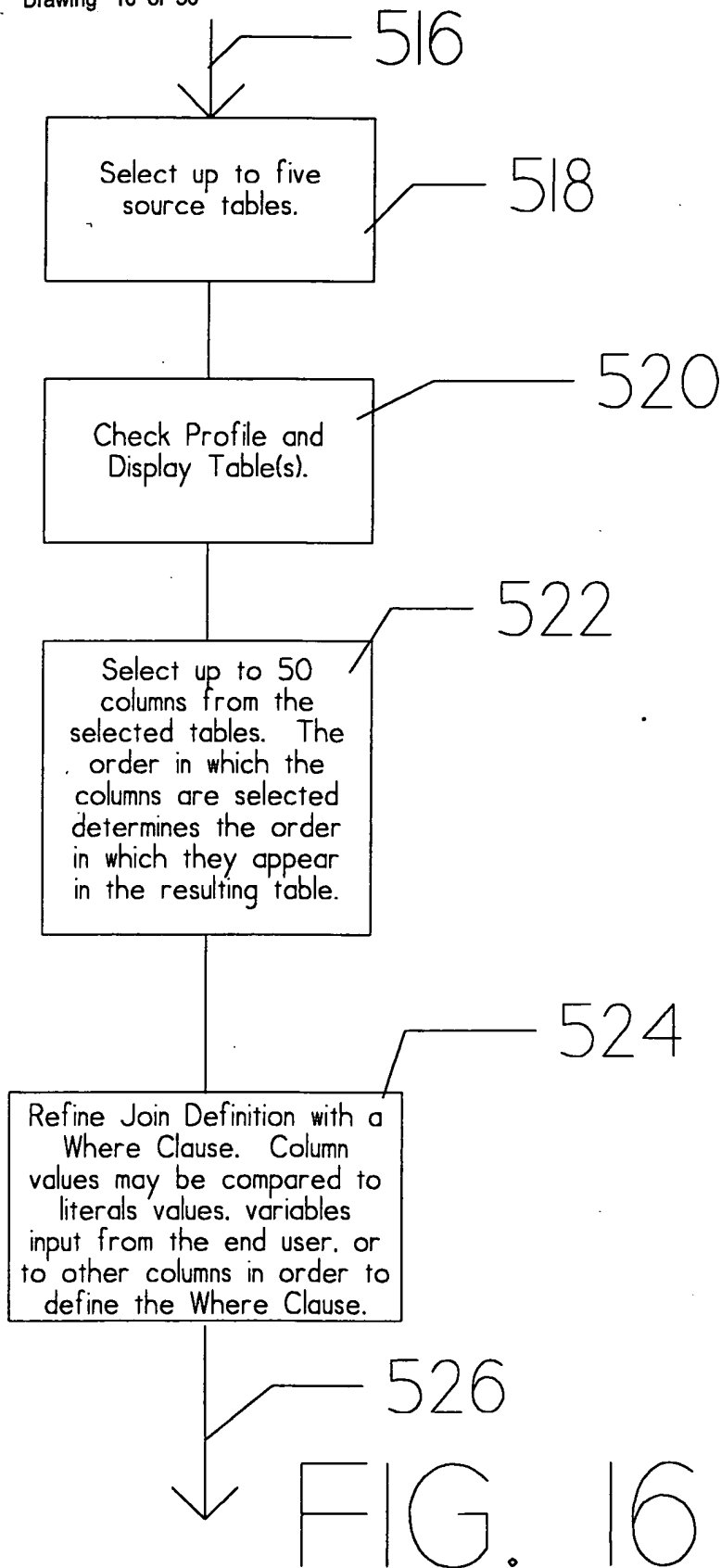


FIG. 15



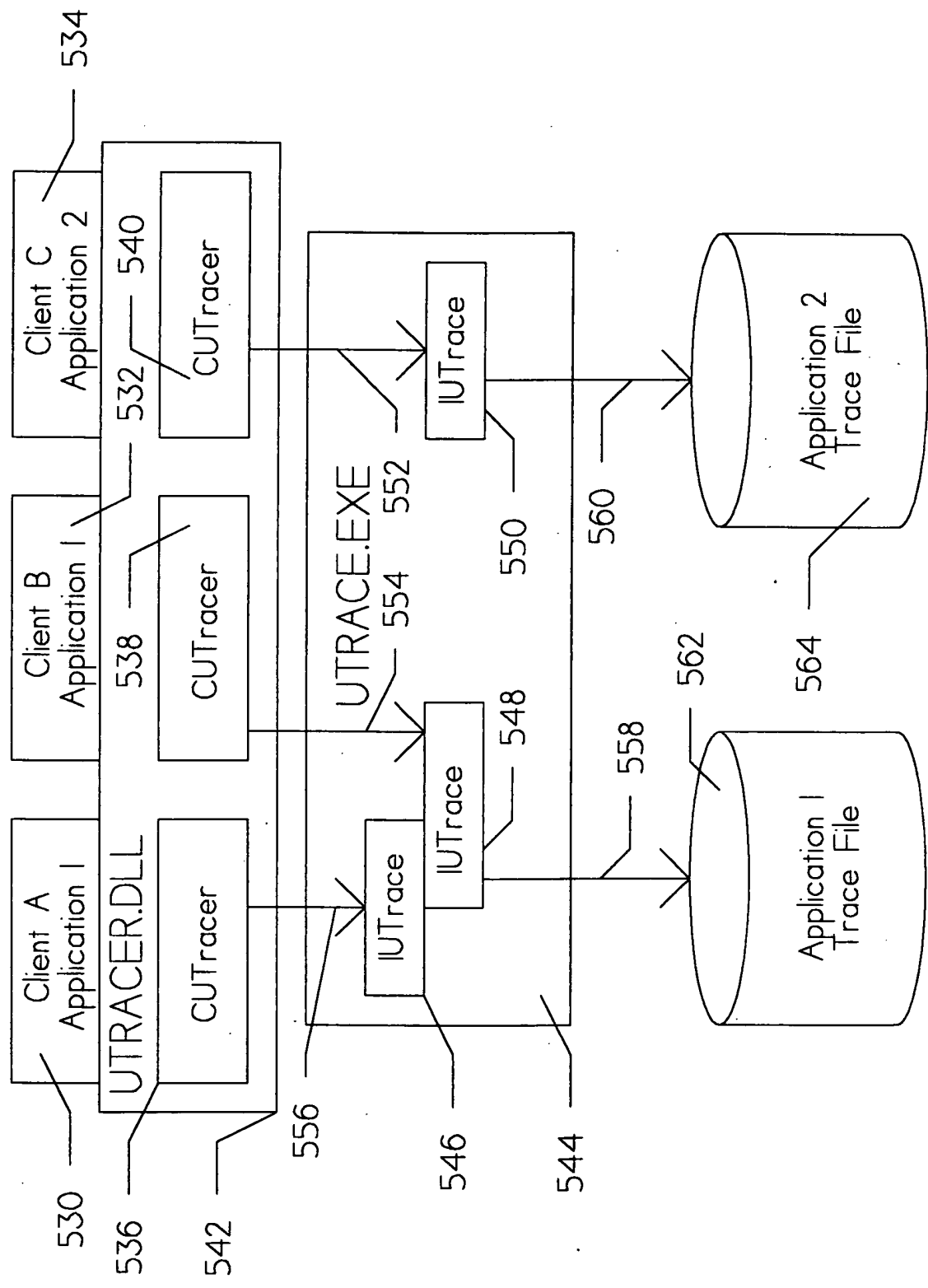


FIG. 17

HKLM\SOFTWARE\UNISYS\UTRACE

APPNAME -- Subkey matching the name of the application

565

ENABLETRACE	-- DWORD value indicating a Boolean (1=trace, 0=no trace).
MAXENTRIES	-- DWORD value indicating the maximum number of entries in the trace file. If missing, then no upper limit is imposed.
FORMATFLAGS	-- DWORD value indicating message formatting flags.
POLICYFLAGS	-- DWORD value indicating trace policy flags set for the application.
TRACELEVEL	-- DWORD value indicating a trace level. 0 = no trace.
TRACEPATH	-- String value indicating the directory path for the trace files.
REGTRACE	-- A string value containing the HKLM\Software sub key to trace for this application. Blank or missing for no registry trace.
COMPONENT	-- A subkey for a specific component of the application.
POLICYFLAGS	-- Value indicating component level trace policy flags
TRACELEVEL	-- DWORD Value indicating a trace level. 0 = no trace.
VERSIONTRACE	-- String value specifying executable component name for version information tracing.

FIG. 18

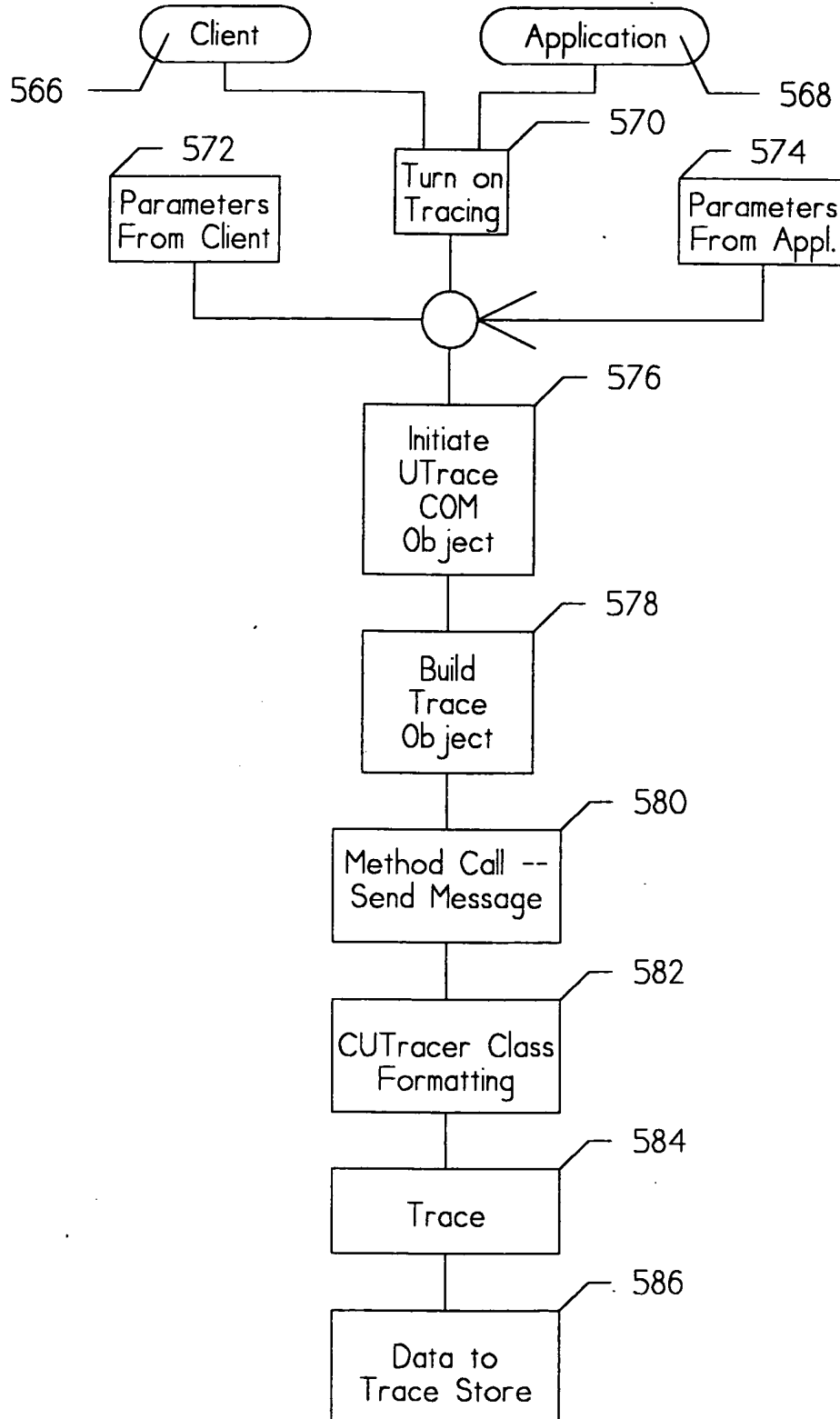


FIG. 19

```
#define CL_TRACE_VERSION      0x1
#define CL_TRACE_ERROR        0x2
#define CL_TRACE_INTERFACE    0x4
#define CL_TRACE_FLOW         0x8
#define CL_TRACE_DETAIL       0x10
```

FIG. 20A

```
if (m_trace.Active(C)_TRACE_DETAIL))
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit
```

FIG. 20B

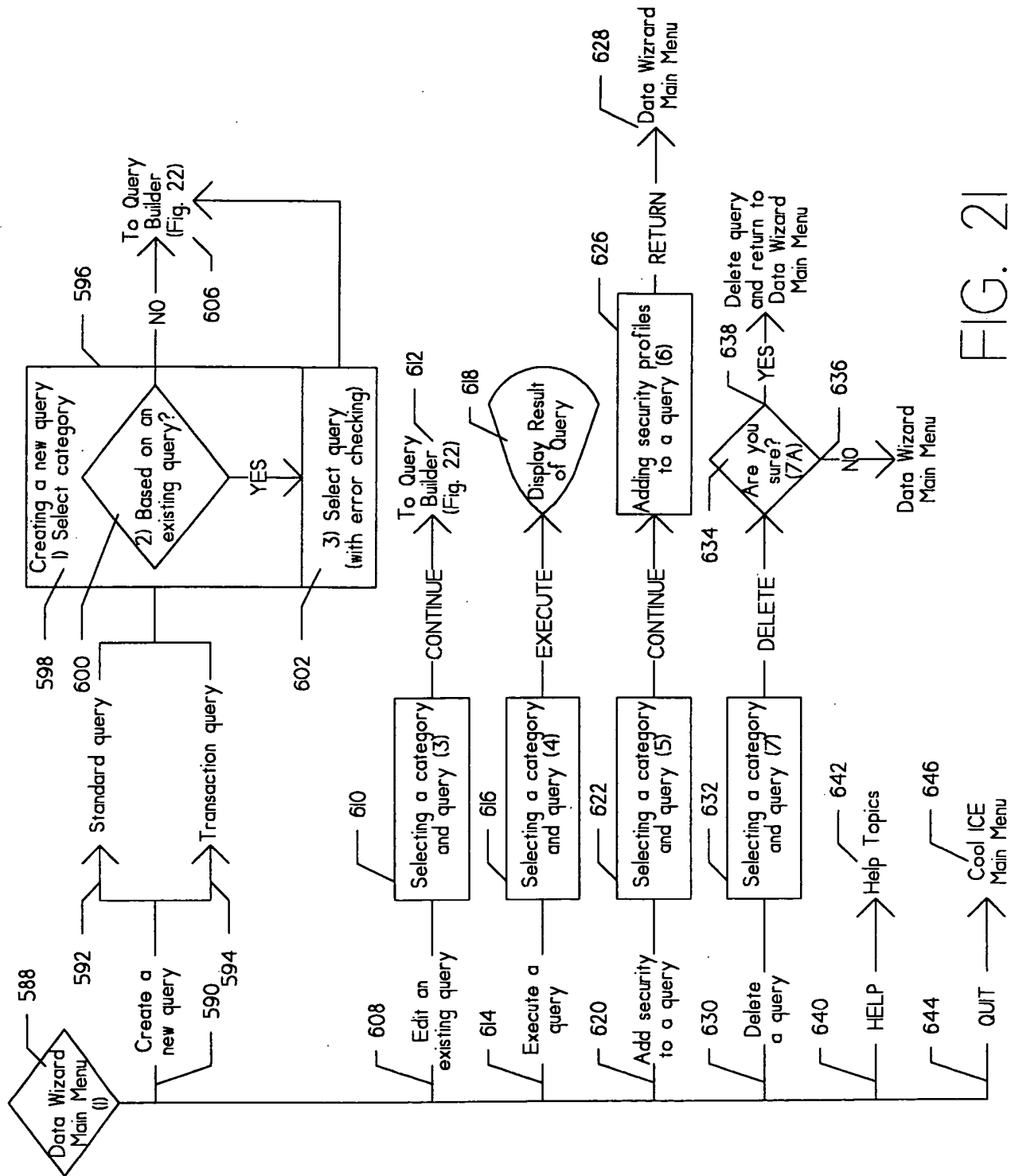


FIG. 21

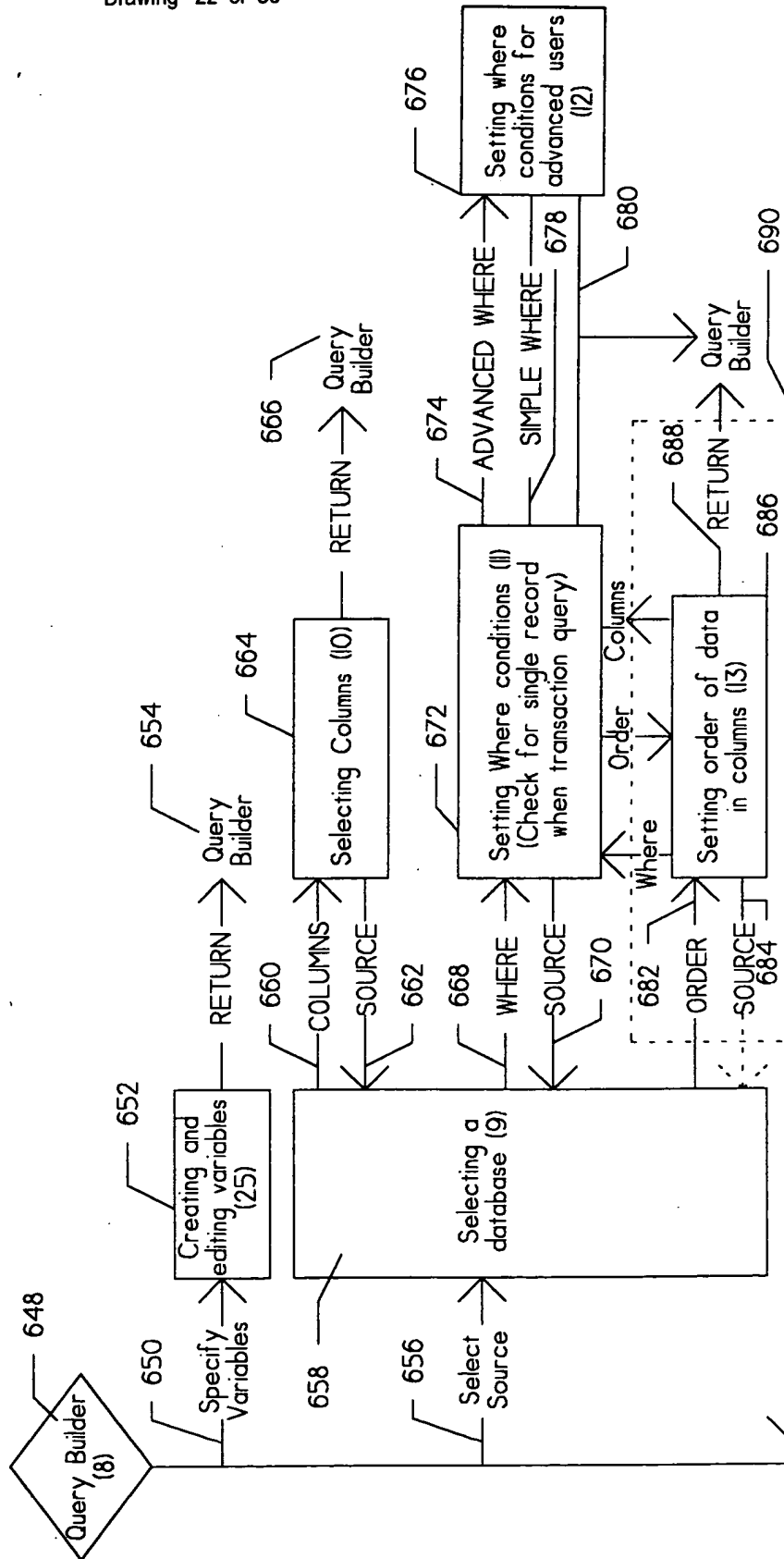


FIG. 22A

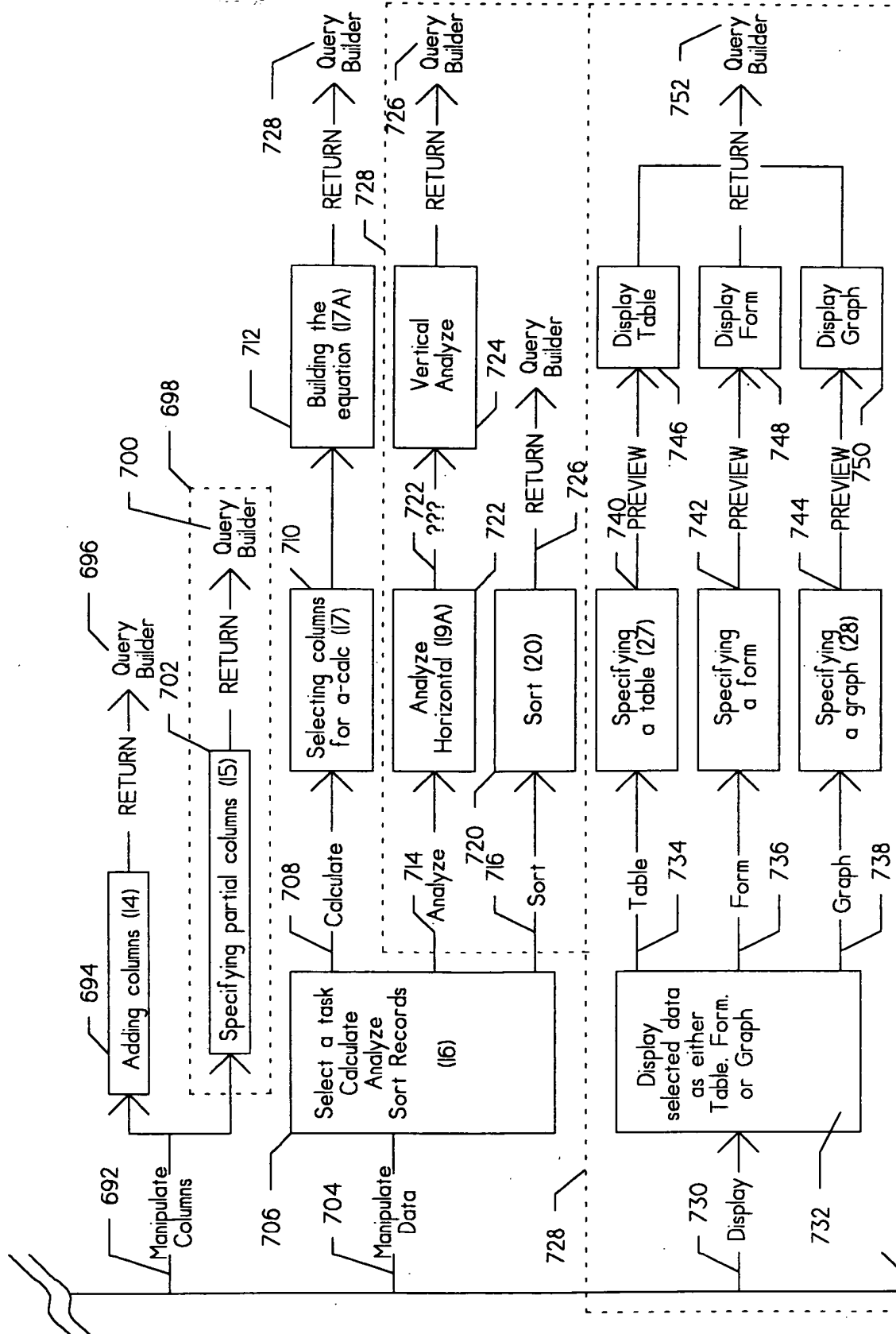


FIG. 22B

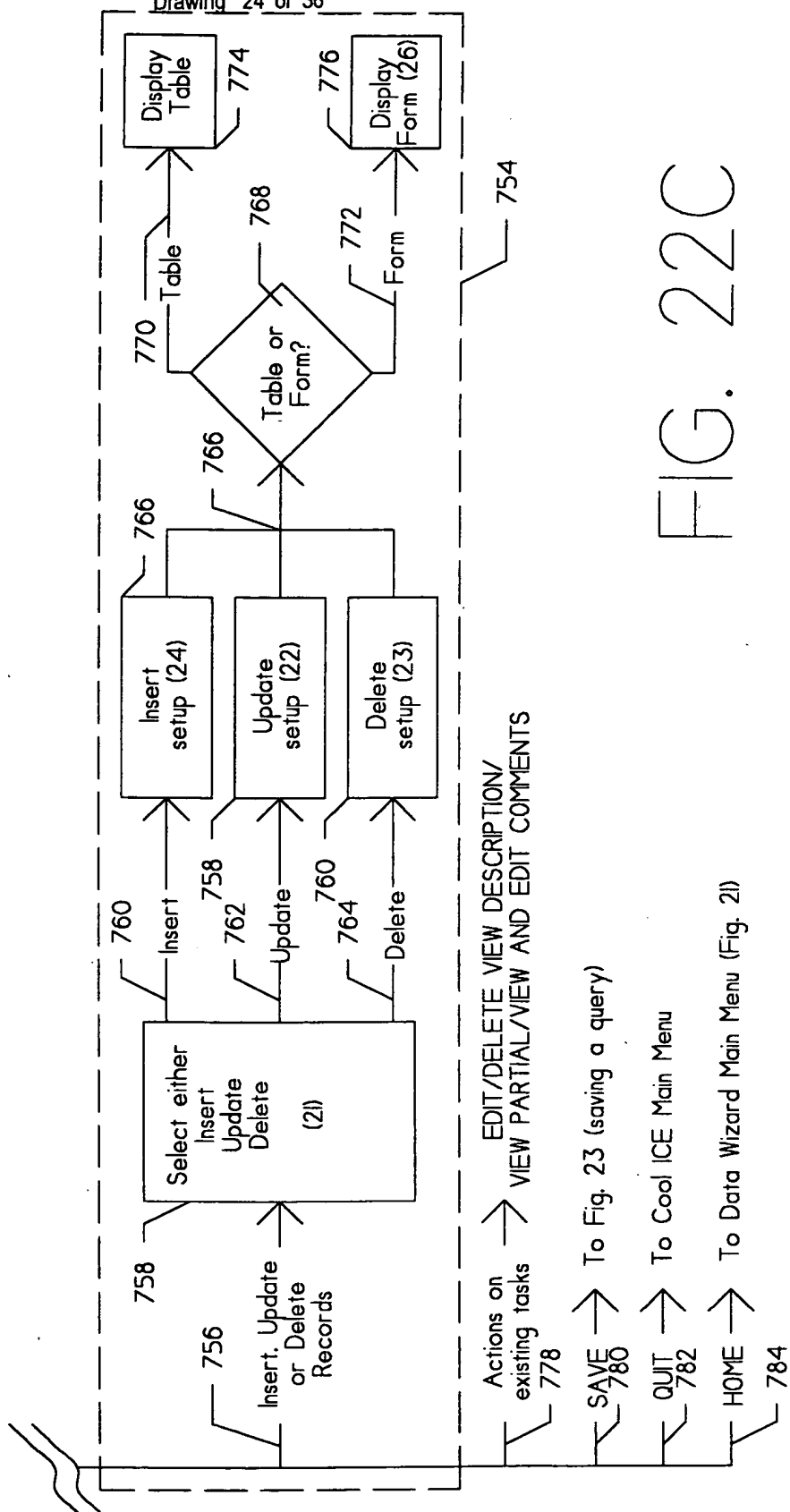


FIG. 22C

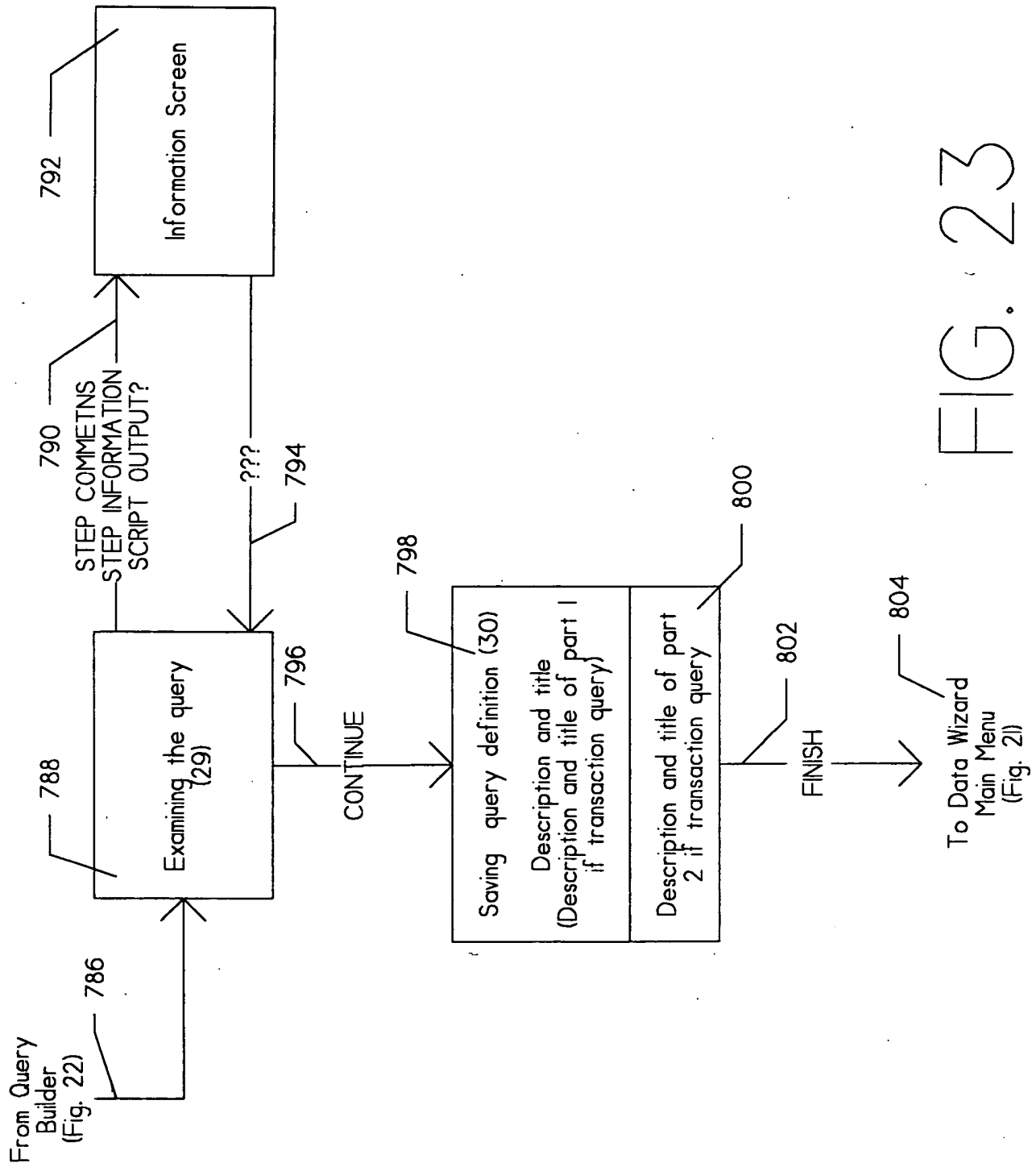


FIG. 23

FIG. 24

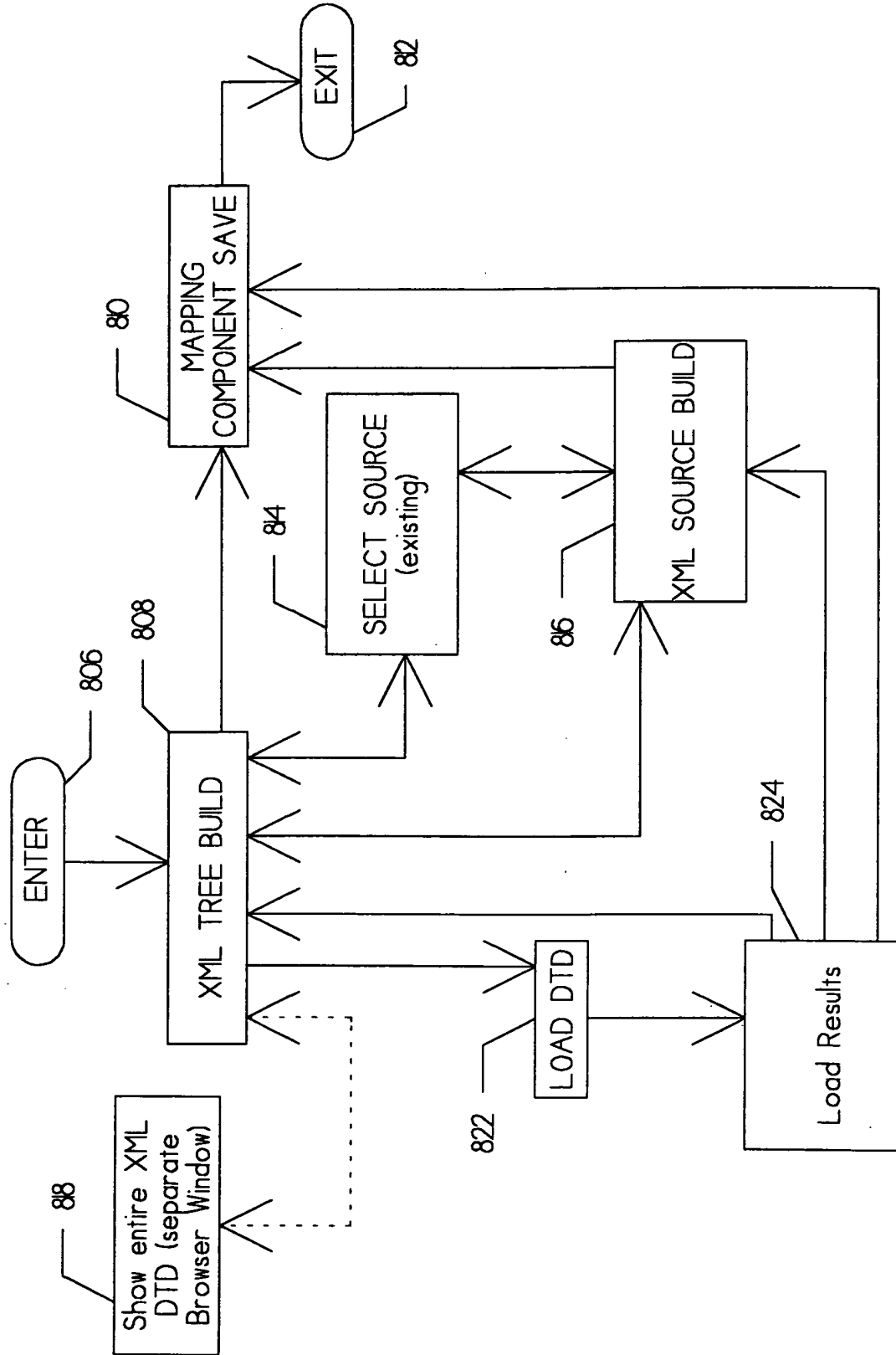


FIG. 24

XML-Mapper -- Microsoft Internet Explorer
 File Edit View Favorites Tools Help

Component Builder UNISYS

Home Quit Cancel Help 872 [Redisplay] Sources 874 Save 876

XML MAPPING ELEMENTS

ELEMENTS	Variables	CONTROLS	Element Properties
836 Newspaper	856	Mapping Type	Item Type
838 Article	858	Open 868	Sequence 860
840 Author	860	Table Mapping	Mapping
842 Editor	862	Complete 866	Row Iterator 862
844 Date	864	Name Conversion	Value 863
846 Edition	866	Capital 864	Element Form
848 Headline	868		Rpt Rpt 864
850 Byline	870		
852 Lead	872		
854 Body	874		

FIG. 25

826

XML-Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

838	<input type="checkbox"/> Newspaper	<input type="radio"/> Tables	<input type="checkbox"/> Mapping Type	<input type="checkbox"/> Name Conversion
840	<input type="checkbox"/> Article	<input type="radio"/> <input type="checkbox"/> Article	<input type="checkbox"/> Open <input type="checkbox"/> M 868	<input type="checkbox"/> Capital 864
842	<input type="checkbox"/> Author	<input type="radio"/> <input type="checkbox"/> Article	<input type="checkbox"/> Table Mapping	<input type="checkbox"/> Complete <input type="checkbox"/> M 866
844	<input type="checkbox"/> Editor	<input type="radio"/> <input type="checkbox"/> Author	<div> <div>Element Properties</div> <div> <div>Item Type <input type="checkbox"/> Sequence <input type="checkbox"/> M 860</div> <div>Mapping <input type="checkbox"/> Row Iterator <input type="checkbox"/> M 862</div> <div>Value <input type="checkbox"/> 863</div> </div> <div> <div>Element Form</div> <div><input type="checkbox"/> Rpt <input type="checkbox"/> Rpt 861</div> </div> </div>	
846	<input type="checkbox"/> Date	<input type="radio"/> <input type="checkbox"/> Editor	<div> <div>Actions 865</div> <div> <div>Clear Mapping</div> <div>Add Sibling above</div> <div>Add Sibling below</div> <div>Add Childred</div> <div>Add Attributes</div> <div>Delete Branch</div> <div>Compact View</div> <div>Show Representation</div> </div> </div>	
848	<input type="checkbox"/> Edition	<input type="radio"/> <input type="checkbox"/> Date		
850	<input type="checkbox"/> Edition	<input type="radio"/> <input type="checkbox"/> Edition		
852	<input type="checkbox"/> Headline	<input type="radio"/> <input type="checkbox"/> Headline		
854	<input type="checkbox"/> Byline	<input type="radio"/> <input type="checkbox"/> Byline		
	<input type="checkbox"/> Lead	<input type="radio"/> <input type="checkbox"/> Lead		
	<input type="checkbox"/> Body	<input type="radio"/> <input type="checkbox"/> Body		
	<input type="checkbox"/> Notes	<input type="radio"/> <input type="checkbox"/> Notes		

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FIG. 26

XML -Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

Component Builder

Home Quit Cancel Help

XML MAPPING ELEMENTS

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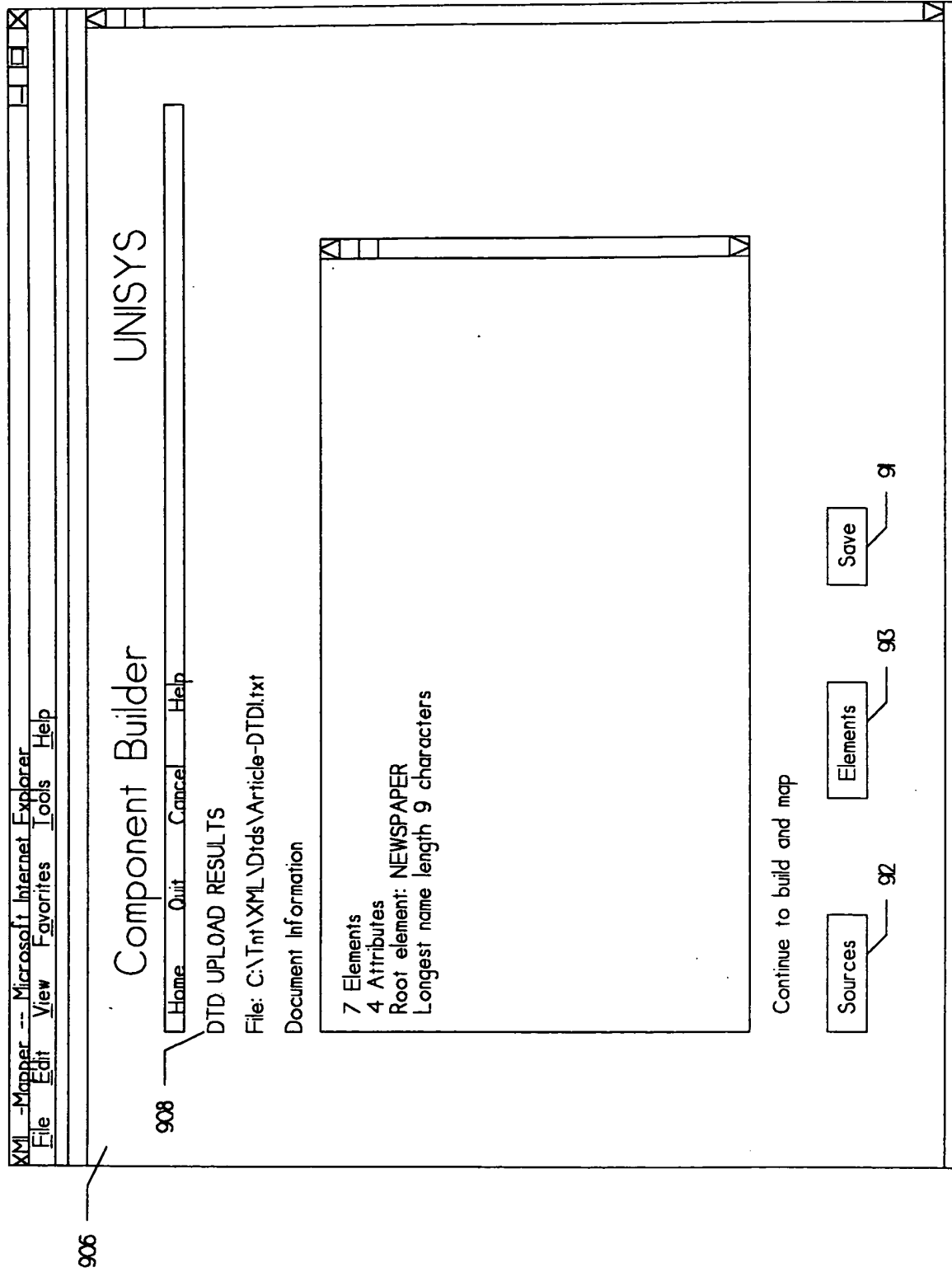


FIG. 28

IDENTIFICATION EXAMPLE

Version:AC:0.0 90
Truncation:AC:0 92
TypeCheck:AC:0 93
ShoeData:ED:0:R 94
From:DE:I:R
From:EV:Supplier:20:string
TableType:ED:I:R
TableType:EV:TableInfo:50:string
Inventory:ED:I:R
Inventory:BT:Inventory:7
Inventory:IH:ITEMNUMBER:I:0
Inventory:IH:QTY:5
Inventory:IH:TYPE:I:0
Inventory:IH:GENDER:6
Inventory:IH:SIZ:3
Inventory:IH:COLOR:3I
Inventory:IH:UNITCOST:I:3
Date:AD:I:R
Date:AV:Date:I:0:string
Time:AD:I:R
Time:AV:Time:5:string
Row:ED:2:R
Row:BR:I
ItemNr:ED:2:R
ItemNr:EF:I:ITEMNUMBER:I:0:R:string
Quantity:AD:2:R
Quantity:AF:I:QTY:5:R:string
Type:ED:2:R
Type:EF:I:TYPE:I:0:L:string:
Gender:ED:2:0
Gender:EF:I:GENDER:6:L:string:UniSex
Size:ED:2:R
Size:EF:I:SIZ:3:L:string:
Color:ED:3:0
Color:EF:I:COLOR:3I:L:string:White
Unitcost:ED:2:R
Unitcost:EF:I:UNITCOST:I:3:R:string:
Row:EE:2
Row:ER:a
Inventory:EE:I
Inventory:ET:I 96

FIG. 29

DTID EXAMPLE

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<!DOCTYPE ShoeData [

```
<!ELEMENT ShoeData (From, TableType, Inventory)>
<!ELEMENT From (#PCDATA)>
<!ELEMENT TableType (#PCDATA)>
<!ELEMENT Inventory (Row+)>
<!ATTLIST Inventory Date CDATA #REQUIRED>
<!ATTLIST Inventory Time CDATA #REQUIRED>
<!ELEMENT Row (ItemNr, Type, Gener?, Size, Color?, Unitcost)+>
<!ELEMENT ItemNr (#PCDATA)>
<!ATTLIST ItemNr Quantity CDATA #REQUIRED>
<!ELEMENT Type (#PCDATA)>
<!ELEMENT Gender (#PCDATA)>
<!ELEMENT Size (#PCDATA)>
<!ELEMENT Color (#PCDATA)>
<!ELEMENT Unitcost (#PCDATA)>
```

FIG. 30

XML INPUT DOCUMENT EXAMPLE

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<?xml version="1.0" encoding="ISO-8859-1"?>
<ShoeData>
<From>Roseville Store</From>
<TableType>Low Inventory Count</TableType>
<Inventory Date>2000-12-05</Inventory Date>
<Row>
<ItemNr Quantity="0">32335</ItemNr>
<Type>Tennis</Type>
<Gender>Mens</Gender>
<Size>6</Size>
<Color>White/Zen Grey/New Spruce</Color>
<Unitcost>25.00</Unitcost>
</Row>
<Row>
<ItemNr Quantity="0">35410</ItemNr>
<Type>Running</Type>
<Gender>Womens</Gender>
<Size>5</Size>
<Color>White/Zen Grey/Neptune Blue</Color>
<Unitcost>19.70</Unitcost>
</Row>
<Row>
<ItemNr Quantity="0">35414</ItemNr>
<Type>Running</Type>
<Gender>Womens</Gender>
<Size>6</Size>
<Color>White/Zen Grey/Neptune Blue</Color>
<Unitcost>19.70</Unitcost>
</Row>
<Row>
<ItemNr Quantity="2">35420</ItemNr>
<Type>Running</Type>
<Gender>Womens</Gender>
<Size>5</Size>
<Color>White/Chlorine Blue/Hot Lime</Color>
<Unitcost>19.70</Unitcost>
</Row>
<Row>
<ItemNr Quantity="1">37421</ItemNr>
<Type>Golf</Type>
<Gender>Womens</Gender>
<Size>8</Size>
<Color>White/Fluorescent Pink</Color>
<Unitcost>35.00</Unitcost>
</Row>
</Inventory>
</ShoeData>
<Color>White/Black-Hot Lime, Neo Teak</Color>
<Unitcost>40.00</Unitcost>
</Row>
<Row>
<ItemNr Quantity="0">32474</ItemNr>
<Type>Tennis</Type>
<Gender>Womens</Gender>
<Size>8</Size>
<Color>White/Light Marine-Ultramarine</Color>
<Unitcost>25.00</Unitcost>
</Row>
<Row>
<ItemNr Quantity="1">35310</ItemNr>
<Type>Running</Type>
<Gender>Mens</Gender>
<Size>6</Size>

FIG. 31

XML-Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

Component Builder

UNISYS

Home Quit Cancel Help

924

Saving Current Table

1. Select data source type.

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| |
|---------------------------|
| Category Service (CSR) |
| Named Reports (RPT) |
| Active Data Objects (ADO) |
| Interim Objects (INT) |

2. Choose Table Destination.

Available Choices:

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|-------|
| <New> |
|-------|

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Reset

Return

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FIG. 32

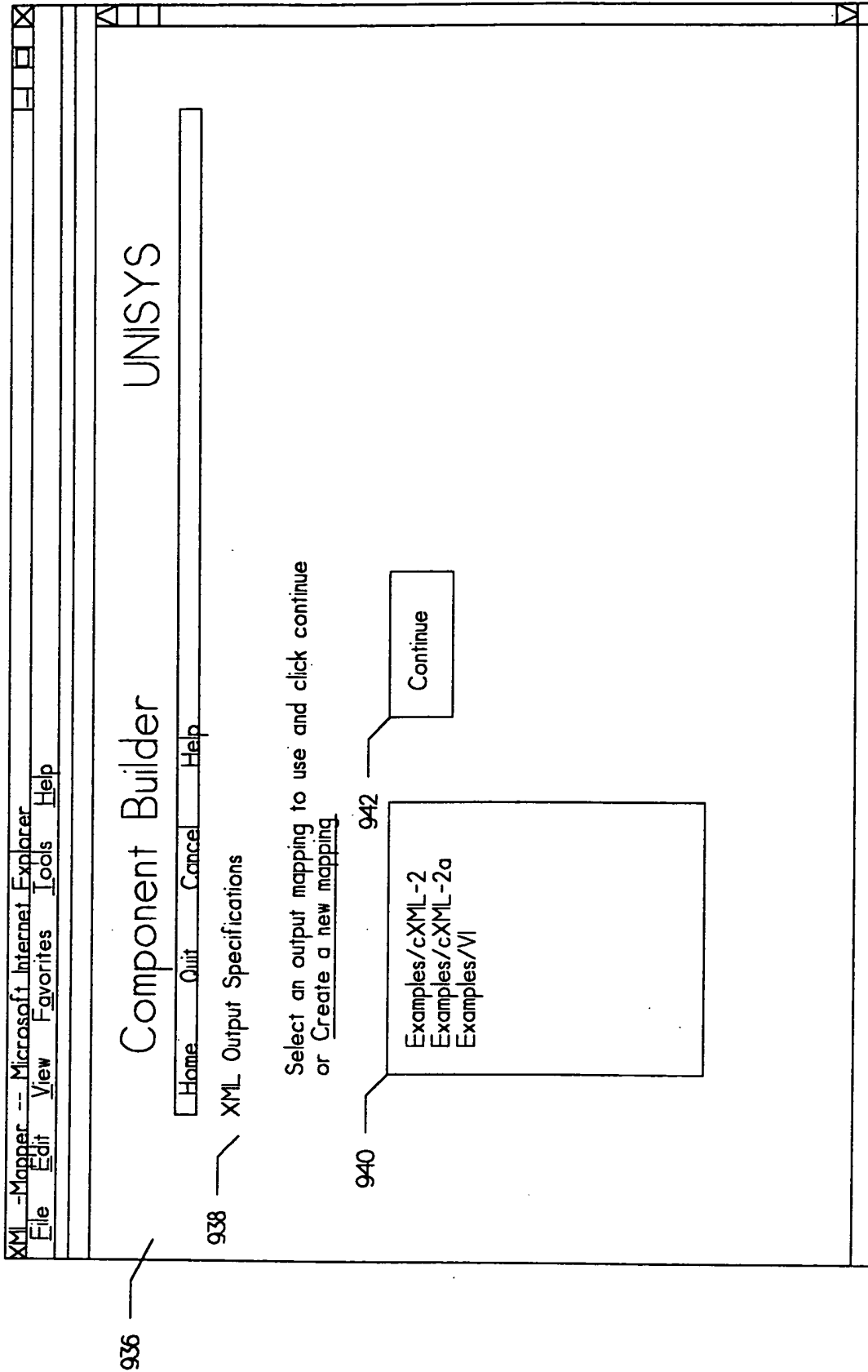


FIG. 33

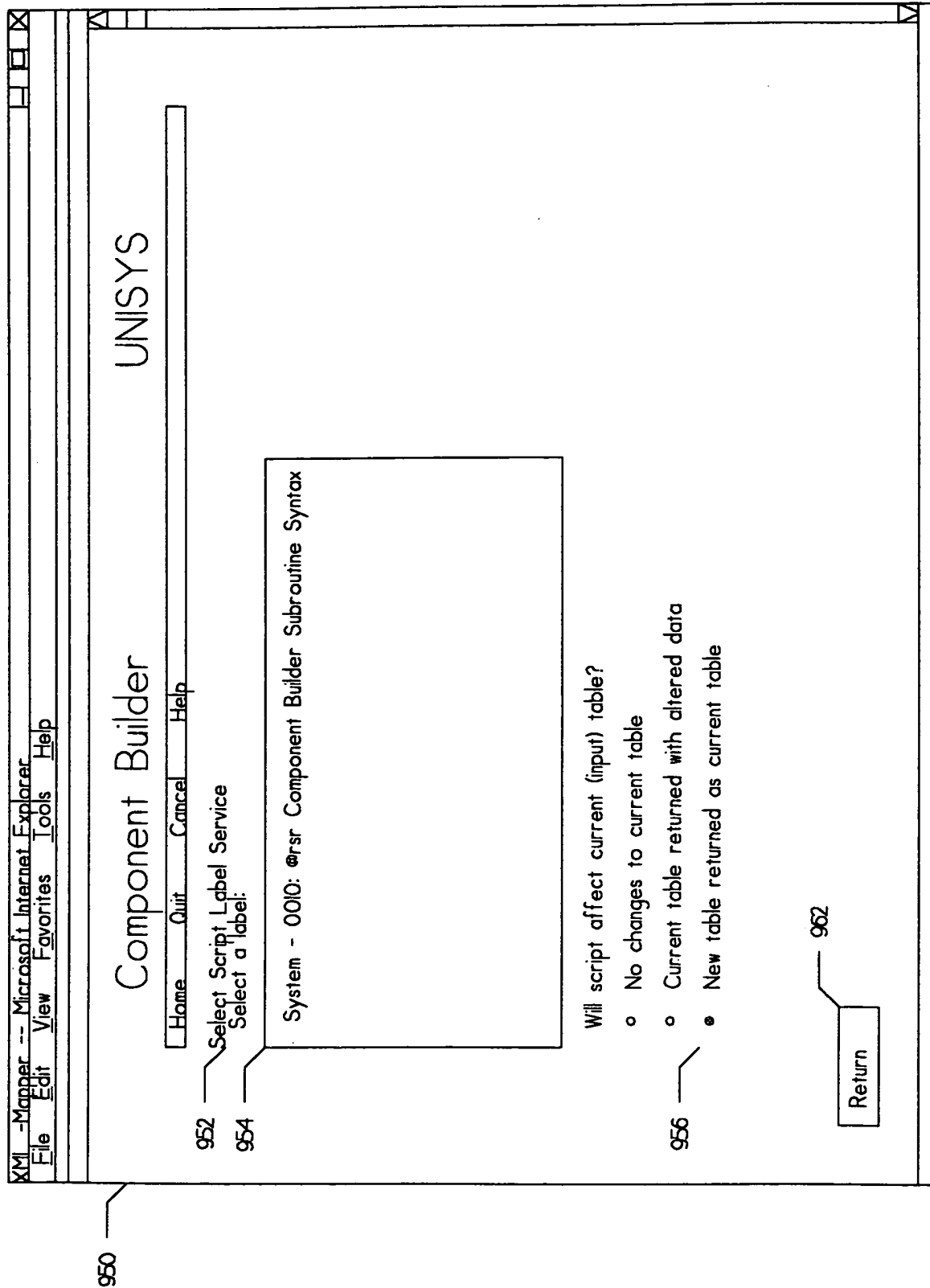


FIG. 34